

# NatureServe ANNUAL REPORT 2011-2012

# PRESIDENT'S MESSAGE



NatureServe moved from strength to strength during the year that ended June 30. 2012. We grew

our programs while exploring new opportunities for the network that culminated in the publication of our 2012-2016 Strategic Plan.

In FY12, increased charitable contributions from individuals and foundations buoyed NatureServe during a time of mounting government austerity. Overall revenue grew year-onyear thanks to an astounding 250% increase in philanthropic grants and gifts, reflecting an expanding community of supporters who recognize the critical importance of using science to boost the effectiveness of conservation across the globe.

I am deeply grateful for the commitment, dedication, and can-do spirit that our staff has shown in serving our mission. This includes the staff of our network members and collaborators, who work with NatureServe to share their deep knowledge of the Earth's most vulnerable species and the places they live.

The report that follows offers an annual snapshot of what the Nature-Serve network has accomplished to advance knowledge of biodiversity, create new capacity, and guide conservation decisions towards more enduring results. Please join us in celebrating our accomplishments and tackling the challenges that remain.

Many I Xle

Mary L. Klein President & CEO

# CONNECTING SCIENCE WITH CONSERVATION

NatureServe works around the globe to ensure that the best scientific information guides how people use, conserve, and appreciate the natural world. This year we made great strides in advancing our core mission priorities while turning to the future in developing a new five-year strategic plan. In the process, staff, board, network members, and other stakeholders assessed the status of our network, the context in which we operate, and the driving forces that will shape how we achieve the greatest mission impact.

The programs described in this report represent NatureServe's extraordinary influence on conservation, as well as the foundation for our future success.

### **Building Scientific Knowledge**

Focusing limited resources on protecting the most vulnerable coastal and marine habitats has gotten easier with the development of the **Coastal and Marine Ecological Classification Standard** (*www.cmecscatalog.org*). NatureServe collaborated with the National Oceanic and Atmospheric Administration, the U.S. Environmental Protection Agency, the U.S. Geological Survey, and more than a hundred scientists and coastal managers to create this framework.



Alaska's giant kelp forests are just one endangered ecosystems that can benefit from NatureServe's scientific work. Photo courtesy of Mandy Lindeberg, NOAA/NMFS/AKFSC (flic.kr/p/8TSjwr).

CMECS is the first-ever comprehensive standard for classifying and describing "wet-footed" ecosystems. By offering a shared framework for characterizing both natural and human-influenced ecosystems, the classification resolves one of the greatest obstacles to effective ocean conservation. Now formally approved as a U.S. federal standard, CMECS is poised to serve as the basis for several national and multi-national efforts to systematically map these habitats for land use planning and conservation.

#### Increasing Network Capacity & Effectiveness

Nearly a decade after a Parks Canada's Species At-Risk Act program manager attended a NatureServe training event, Parks Canada (PCA), NatureServe, and NatureServe Canada, continue to benefit from a vibrant, successful collaboration. The signature achievement is a data system that revolutionizes PCA's collection of field data for rare and imperiled species. Park staff nationwide access this online system—one fully integrated with NatureServe's core Biotics platform in Canada and across the Western Hemisphere.

These efforts have saved the agency money and helped it to meet performance targets. A 2008 Auditor General's report cited Parks Canada as the only agency to make satisfactory progress toward a comprehensive inventory of at-risk species. Lined up as an early adopter of Biotics 5, PCA is exploring ways to extend this collaboration further in areas like coastal and marine conservation.

# **MISSION**

To provide the scientific basis for effective conservation action

# **BOARD OF DIRECTORS**

Chair Andrew Kaiser, Goldman Sachs President & CEO Mary Klein, NatureServe Vice Chair Andrew Harcombe, The Nature Conservancy of Canada Vice Chair Larry Master, Conservationist Vice Chair Thomas L. Smith, Director, Virginia Division of Natural Heritage Treasurer Mary Ann Lawler, U.S. Dept. of the Interior (ret.) Secretary Calvert Armbrecht, West Virginia Land Trust Michael Andrews. The Nature Conservancy Jason Greenall, Manitoba Conservation Data Centre Jim Geringer, Esri Kim Nelson, Microsoft Aníbal Ramírez Soto, Pronatura Vera-Cruz Doug Ripley, U.S. Air Force (ret.)

Hilary Swain, Archbold Research Station

Sabra Tonn, Arizona Heritage Data Management System

# SCIENCE ADVISORY PANEL

Kamal Bawa, University of Massachusetts Boston

**Claude Gascon**, National Fish & Wildlife Foundation

Healy Hamilton, California Academy of Sciences

Larry Master, Conservationist

Debra Peters, U.S. Dept. of Agriculture

Hilary Swain, Archbold Biological Station

Peter White, University of North Carolina at Chapel Hill

# CONNECTING SCIENCE WITH CONSERVATION (continued from p.1)

#### **Conservation Impact**

The cloud forests of Veracruz are Mexico's most biologically diverse ecosystems and one of its most threatened. An astounding twothirds of the 341 migratory species recognized by the U.S. Fish and Wildlife Service pass through or winter in the state.

Long a regional leader in reforestation and restoration, Pronatura Veracruz marked a new milestone in 2011 when the NatureServe network member graduated the first class from its new training certificate program in Cloud Forest Restoration. The program offers a state-ofthe-art model of professional learning that balances theory, practice, and both online and on-the-ground project activities.



The diploma program will increase the restoration capacity of stakeholder agencies and organizations as well as their ability to accurately plan restoration projects with adequate scientific, human, and financial resources.



After the launch of LandScope Pennsylvania, web traffic from users in the state increased by 90% over the previous year.

### A Common Platform for the Commonwealth

Funding from Pennsylvania DCNR's Wild Resources Conservation Program and the Hershey Company led to the launch of **LandScope Pennsylvania**. Staff from NatureServe and its member, the Pennsylvania Natural Heritage Program identified, acquired, and published a dozen of the state's most relevant conservation maps, high-quality writing, and compelling photos and videos to spotlight significant places and important conservation themes.

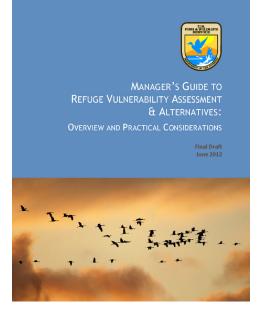
The resulting resource informs and inspires conservation action among land-protection practitioners, planners, public officials, environmentally minded students, teachers, and citizens. By extending the nationwide site developed with National Geographic, LandScope Pennsylvania enables organizations of all types and sizes to bring attention to conservation successes and place their work within the context of broader regional and national efforts. Users from the Commonwealth are now flocking to the site, which has seen a 90% year-over-year increase in visits from Pennsylvania.

# **PROJECT GALLERY**

## Anticipating Climate Vulnerability in Wildlife Refuges

The emerging and potential impacts of climate change on biological and infrastructure resources is a major concern for the U.S. Fish and Wildlife Service's National Wildlife Refuge System. Working with FWS staff, NatureServe developed a comprehensive approach for assessing the vulnerability of refuges and their supporting landscapes. FWS can then use the results to develop adaptation strategies and management alternatives.

These assessments help agency staff make better-informed management and planning decisions by providing information on current and future conditions in and around the



refuges. NatureServe published a detailed technical guide and a companion manager's guide that offer high-level overviews of the assessment process along with practical insights on how to initiate an assessment. Though prepared specifically for the refuge system, this process offers practical climate-related considerations and approaches for managers of any site managed for its natural values.

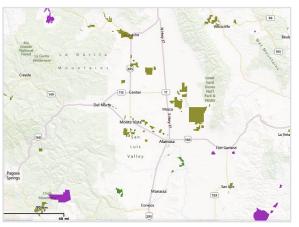
#### Mapping the Contributions of Easements to the Conservation Estate

NatureServe joined four nonprofit partners—Defenders of Wildlife, Ducks Unlimited, Conservation Biology Institute, and Trust for Public Lands—in developing and launching the National Conservation Easement Database (NCED). This first-ever compilation of data on U.S. conservation easements includes records from land trusts and public agencies throughout the United States. NCED offers a unique body of knowledge to organizations eager to understand how—and, most importantly, where—private lands contribute

to conservation success.

As a voluntary, secure, and publicly available resource, NCED respects landowner privacy and does not collect landowner names or sensitive information about easement properties.

NatureServe staff collaborated with our network members to gather data in 11 states and led the development of formal metadata. We continue to engage in fundraising, data management, and data delivery.



Colorado's San Luis Valley is just one of area across the United States where easements make up a significant portion of conserved lands (detail from the LandScope America map viewer: <u>http://j.mp/NCED-CO-SanLuis</u>)

# **IN BRIEF**

## Assessing Pesticide Risks to Endangered Species

This past year marked the tenth vear that the NatureServe network has delivered a U.S. species dataset to **FESTF**, a pesticide-industry task force. The group supports mandatory risk assessments meant to minimize the impacts of pesticides on federally threatened and endangered species. FESTF relies on NatureServe network data as the "best available" data to comply with U.S. Environmental Protection Agency regulation of the Federal Insecticide, Rodenticide and Fungicide Act, the Endangered Species Act, and other federal and state laws.

### Identifying High-Quality Longleaf Pine Forests

Working in partnership with government, non-profit, and academic partners, NatureServe's Southeast office developed a standard approach for determining the condition of longleaf pine forests. This shared framework identifies high-quality stands and improves understanding of the remnants of the once-dominant forests of the Atlantic and Gulf coastal plains.

# Infrastructure & Mining Impacts on Biodiversity in the Peruvian Amazon

Ongoing mining development in the Peruvian Amazon led senior ecologist Carmen Josse to analyze potential zones of conflict between key areas of biodiversity and infrastructure development in the region. This study used information on endemic plants and animals known from the eastern slope of the Andes developed earlier by NatureServe, along with pressures and threats documented by collaborators Matt Finer (CIEL) and Clinton Jenkins (North Carolina State University).



# Coming Soon BLM RAPID ECOREGIONAL ASSESSMENTS



*NatureServe, network, and partner staff conducted in-depth planning meetings to better understand BLM's information needs.* 

Three landscape-scale projects are calling on all the deep knowledge and expertise of NatureServe network scientists, planners, spatial modelers, GIS analysts, and IT staff, and consulting experts.

A NatureServe-led team is currently assisting the U.S. Bureau of Land Management (BLM) with Rapid Ecoregional Assessments for the Central Basin and Range, Mojave Basin and Range, and Seward Peninsula-Nulato Hills-Kotzebue Lowlands ecoregions. These comprehensive "REAs" will provide BLM and its partners critical context for updating management plans in the coming decades.

"By developing the first round of REAs, we're breaking new ground in landscape-scale conservation," says Pat Comer, chief ecologist, who is guiding the project from the Boulder, Colo., office with conservation plan-

ning director Patrick Crist. "The first challenge was to understand BLM's information needs, so each of our subteams devised new methods to work effectively with available data on ecological integrity and climate change. We have cataloged, processed, and delivered more than 800 distinct data sets for each assessment—quite an amazing accomplishment in just two years."



BLM owns many lands (in yellow) across the Central and Mojave Basin and Range ecoregions.

#### Supporting Species Stewardship on U.S. Military Lands



The Mardon skipper (Polites mardon) is a candidate species under the U.S. Endangered Species Act and considered globally imperiled (G2) by NatureServe. A key population inhabits the South Puget Sound prairies near Washington state's Joint Base Lewis-McChord. Effective management by U.S. Army staff and nearby partners could benefit the skipper, reduce the likelihood of federal regulation, and minimize restrictions on military training (Photo courtesy of USFWS Pacific).

To protect, manage, and monitor at-risk species, the U.S. Department of Defense (DOD) needs up-to-date information on where they occur on their lands. Armed with this knowledge, DOD can then prioritize species and facilities where effective management could preclude the need for federal listing, which could result in restrictions on an installation's training activities.

NatureServe evaluated DOD holdings by completing two analyses of globally imperiled (G1 & G2) species and "candidate species" not yet formally listed as threatened or endangered under the U.S. Endangered Species Act. The first examined species occurring mostly or exclusively on military lands along with those whose survival requires DOD management. The second identified military installations that provide habitat for high numbers or high densities of imperiled species. DOD planners, managers, scientists, and policy-makers can apply these results in stewardship that ensures both military readiness and biodiversity conservation.

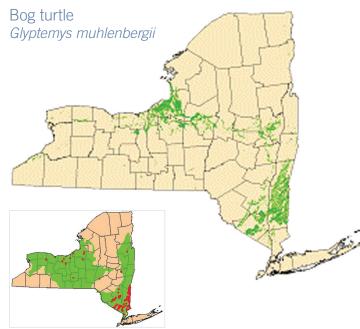
#### **Naturally Connecting Citizens Scientists**

NatureServe Canada has partnered with one of the country's largest volunteer organizations, the Canadian Wildlife Federation, to develop **Naturally Connected**, an online system that engages citizens in gathering and sharing information about Canada's natural heritage. Validating contributions through training, expert groups, and NatureServe standards and methods, the platform will enable Canadians to track birds, butterflies, dragonflies, flowering plants, mammals, freshwater fish, and invasive species through a personal portal, leveraging increasing use of handheld devices to enhance biodiversity knowledge available to decisionmakers, researchers, and on-the-ground managers.

#### Improving Large-Scale Transportation & Mitigation

NatureServe organized a multi-agency workshop to improve decision-making and permitting in large-scale transportation and infrastructure planning.

The workshop evolved out of the EcoLogical Framework that NatureServe and network members in Oregon and New York developed for the U.S. TRB's Strategic Highways Research Program 2. This work provided specific recommendations—like multi-agency data integration —that could streamline processes and improve environmental outcomes for state departments of transportation, metropolitan planning organizations, and resource and regulatory agencies.



By identifying where species are not only likely to occur but also likely <u>not</u> to occur, predictive distribution models from the NatureServe network provide transportation and infrastructure planners with more focused and specific options for avoidance, minimization, and mitigation than traditional models (inset).

#### **Mobilizing Observations Data**

NatureServe released a mobile observations system, built with support from the National Science Foundation. Rather than building a new end-to-end solution, this system identified the gaps in creating an effective digital workflow and developed a suite of tools that fulfilled the unmet needs.

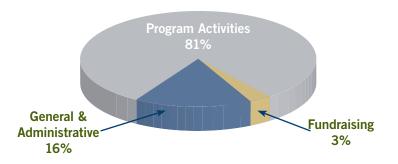
The system includes a flexible desktop application suite and an online template library that collaborators like the Parks Canada, Saskatchewan Conservation Data Centre, and the New Jersey Natural Heritage Program already use to create, edit, and share templates for handheld devices. The system's software and its source code are available as free downloads through Google Code (<u>http://code.google.com/p/ns-mos/</u>), where opensource developers can contribute to future releases.

# **SOURCES OF FUNDS**



\* Includes membership dues, conference and training fees, rental income, royalties, and investment income.





EXPENSES		FY2012	FY2011
Program Activities			
Conservation Products & S	Services	\$ 4,946,328	\$ 5,091,102
Network Capacity Building		468,862	402,371
Program Development		66,287	320,143
Scientific Data & Methods		907,106	649,568
Technology Research & Deve	lopment	1,008,443	320,143
		7,397,027	7,004,810
Fundraising		277,638	216,062
General & Administrative		1,508,156	1,692,266
TOTAL EXPENSES		\$ 9,182,821	\$ 8,913,138

# WITH GRATITUDE

# We wish to extend our sincere appreciation to the patrons and clients whose support helped NatureServe advance our shared mission between July I, 20II, and June 30, 20I2.

#### **INDIVIDUALS & FAMILIES**

Deborah Albert Kenneth and Gail Albert Michael Andrews Anonymous Ted and Calvert Armbrecht Rachel Ascher Madge Baker Ralph Barba Doug Barker Kristin Barker Robert O. Blake Christopher Boebel and Glenna Eaves Herman and Mary Breden Nancy, Carolyn, and Amy Breden Zachary Brown Stephen and Janet Breden Elaine T. Broadhead Mark Brodkey Betty and Howie Burke Elizabeth Byers Steven Carter-Lovejoy Lee Casebere Steve Chaplin Erin Chen Combined Federal Campaign Robert Chipley Ann Coburn Karen Coda Carmen Converse Edwin and Mary Crist Richard and Mary Crouch Greg Czarnecki Gwen Davis Joyce Davis Kevin Davis Edward Dayton Carol and Barry Dickman Holly D. Doremus and Gordon E. Anthon Hamilton and Lin Emmons Don and Kathy Faber-Langendoen **Russ Faucett** David Ferrell Jerry Franklin Joy Gaddy Lydia Garvey James E. Geringer Audrey Godell Kathy and John Goodin Barbara Goodman Craig R. Groves and Victoria Saab Henry and Barbara Hahl Dr. Benjamin Hammett David Harrison Cloyce Hedge Bonnie Heidel Ronald Hellmich Leslie Honey

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Giving at the office? NatureServe is proud to participate in the **Combined Federal Campaign** the official giving program for federal employees. Pledge your support to NatureServe using our CFC number #10299. You can also donate to NatureServe through **EarthShare**, which connects hundreds of workplaces with the most respected environmental organizations in America.

# **OUR THANKS**

#### AGENCIES

U.S. Army Corps of Engineers U.S. Army Environmental Command Arkansas Natural Heritage Commission U.S. Bureau of Land Management U.S. Department of Transportation—Federal Highway Administration U.S. Enviromental Protection Agency U.S. Fish and Wildlife Service **USDA** Forest Service U.S. Geological Survey U.S. National Oceanic and Atmospheric Administration U.S. National Park Service USDA Natural Resources Conservation Service Nebraska Parks and Game Commission New England Interstate Water Pollution Control Commission State of New Jersey Department of Environmental Protection National Oceanic & Atmospheric Administration USDA Natural Resources Conservation Service Organization of American States Parks Canada Pennsylvania Department of Conservation & Natural Resources Pikes Peak Area Council of Governments Puerto Rico Conservation Trust Texas Parks and Wildlife Department Washington Natural Heritage Program

Washington Natural Heritage Program Western Governors Association

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# EXPANDING KNOWLEDGE THROUGH ACADEMIC COLLABORATION

In June 2011, NatureServe received one of just four Dimensions of Biodiversity grants awarded by the National Science Foundation, which supports a five-year effort to complete the IUCN Red List assessment for all reptile species in the Western Hemisphere. But this prestigious award also cemented partnerships with four U.S and one Brazilian university—relationships emblematic of efforts to enrich NatureServe's scientific work through stronger creative collaborations with academic institutions.

17 network members operate in university settings, but NatureServe's Northeast Office just joined them, too, with their relocation to the biology department at University of Massachusetts Boston (<u>http://www.umb.edu/academics/csm/biology/natureserve</u>). Our formal relationship extends into the environmental science, earth and ocean sciences, and computing departments, with whom we are pursuing interdisciplinary projects at the interface between biology and computer sciences and supporting student research on and analysis of network data.

Elsewhere, the NatureServe Southeast office has been exploring various collaborations with the University of North Carolina Chapel Hill, and the NatureServe home office has established a connection with George Mason University that brings in project interns, appoints our scientists to visiting positions, and encourages joint research. Each of these exciting relationships offers a spark of innovation to our traditional delivery of biodiversity knowledge, tools, and expertise.



Conservation biologist and evolutionary ecologist Kamal Bawa, who provided critical support for locating NatureServe's Northeast office at University of Massachusetts Boston, recently received the inaugural Gunnerus Prize, developed as an equivalent to a Nobel Prize for Sustainability Science (photo courtesy of UMB).

# 2012 Awards Honor Commitment to Science & Contributions to Biodiversity Conservation



William D. Ruckelshaus receives the 2012 NatureServe Conservation Award from president and CEO Mary Klein at Biodiversity Wihtout Boundaries 2012 in Portland, Oregon.



#### www.natureserve.org

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Southeast Regional Office 601-A Foster St. Durham, NC 27701

West Regional Office 2108 55th Street, Suite 220 Boulder, CO 80301

Midwest Regional Office P.O. Box 9354 St. Paul, MN 55109 NatureServe and our 2012 co-host, the Oregon Biodiversity Information Center, welcomed more than 250 attendees to Portland, Oregon for Biodiversity Without Boundaries 2012 in April. Two ceremonies highlighted the four-day event, recognizing the achievements of one individual and three Nature-Serve network members.

Both before and after his tenures as the first and fifth administrator of the U.S. Environmental Protection Agency, **William D. Ruckelshaus** demonstrated a forthright commitment to science in guiding policy and decision-making. The award acknowledges the unique character, scale, and diversity of his contributions to protect the natural environment throughout the course of his distinguished career.

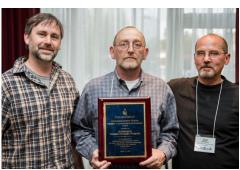
During his engaging and disarming remarks, Mr. Ruckelshaus made a point of citing the importance of NatureServe's "advanced technical assistance that is so helpful in making rational public policy." He is the award's third winner, joining biologist and Pulitzer Prize-winning author Dr. Edward O. Wilson (2011), and Dr. Robert E. Jenkins, founder of the NatureServe network's natural heritage methodology (2010).

Meanwhile, the NatureServe network recognized outstanding work by three members. The **Washington National Heritage Program** received the Scientific and Technical Advancement Award for increasing access to reliable scientific information on the state's rare plants, its nearly 100 ecological systems, and the ecological integrity of its important natural areas—efforts that have help make natural resource planning, policy, and management more cost-effective.

**SalvaNATURA** and the **Florida Natural Areas Inventory** (FNAI) won the 2012 Conservation Impact Award. As a founding member of the Sustainable Agriculture Network, the El Salvador-based SalvaNATURA promotes sustainable forest stewardship by improving agricultural practices and advancing the science and practice of bird and ecosystem conservation. FNAI

earned praise for its publication of *The Atlas of Florida's Natural Heritage* and its leadership in developing the state's Critical Lands and Waters Identification Project.







(Clockwise from top left) Award recipients (I to r) Joe Rocchio, John Gamon, and Jack McMillen from the Washington Natural Heritage Program; SalvaNATURA's Alvaro Moises (2nd from right) celebrates with (I to r) María Patrocinio Alba of Pronatura Sur, Aníbal Ramírez of Pronatura Veracruz, and NatureServe's Alexandra Sanchez; Gary Knight of FNAI receives Conservation Impact Award from Sabra Tonn, director of the Arizona Heritage Data Management System.